

What is claimed is:

1. A device for treating blood in an extracorporeal circuit comprising a venous blood reservoir having an inlet and an outlet, and a hemoconcentrator having a first inlet connector for the blood to be treated, a second outlet connector for the outflow of concentrated blood, and a third outlet connector for the outflow of the ultrafiltered liquid, wherein the hemoconcentrator is disposed within the venous blood reservoir and the hemoconcentrator and the venous blood reservoir are integrated into a single monolithic assembly, and wherein the hemoconcentrator comprises an enclosure containing structure suitable to concentrate blood.
2. The device according to claim 1, wherein the second outlet connector leads to a port that is connected to the venous reservoir and the second outlet connector is provided with a flow control element that is suitable to be actuated by an operator in order to vary the passage section of the blood through the port, and wherein the flow control element comprises a duct that is open at one end onto the second outlet connector and is suitable to be connected at the other end to a disposal bag by a line provided with an occlusion structure.
3. The device according to claim 2, wherein the second outlet connector leads to a port that is directly connected to the venous blood reservoir.
4. The device according to claim 2, wherein the flow control element is associated with the enclosure of the hemoconcentrator by a threaded portion.

5. The device according to claim 1, wherein the second outlet connector leads to a port that is connected to a cardiotomy reservoir that is associated with the venous blood reservoir and is connected thereto, and the second outlet connector is provided with a flow control element that is suitable to be actuated by an operator in order to vary the passage section of the blood through the port, and wherein the flow control element comprises a duct that is open at one end onto the second outlet connector and is suitable to be connected at the other end to a disposal bag by a line provided with an occlusion structure.

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6. The device according to claim 5, wherein the flow control element is associated with the enclosure of the hemoconcentrator by a threaded portion.